

# ***GREAT LAKES MARITIME TASK FORCE***



Promoting Shipping On America's Fourth Sea Coast Since 1992

**One Maritime Plaza - 3rd Floor ♦ Toledo, Ohio ♦ [www.glmtf.org](http://www.glmtf.org)**



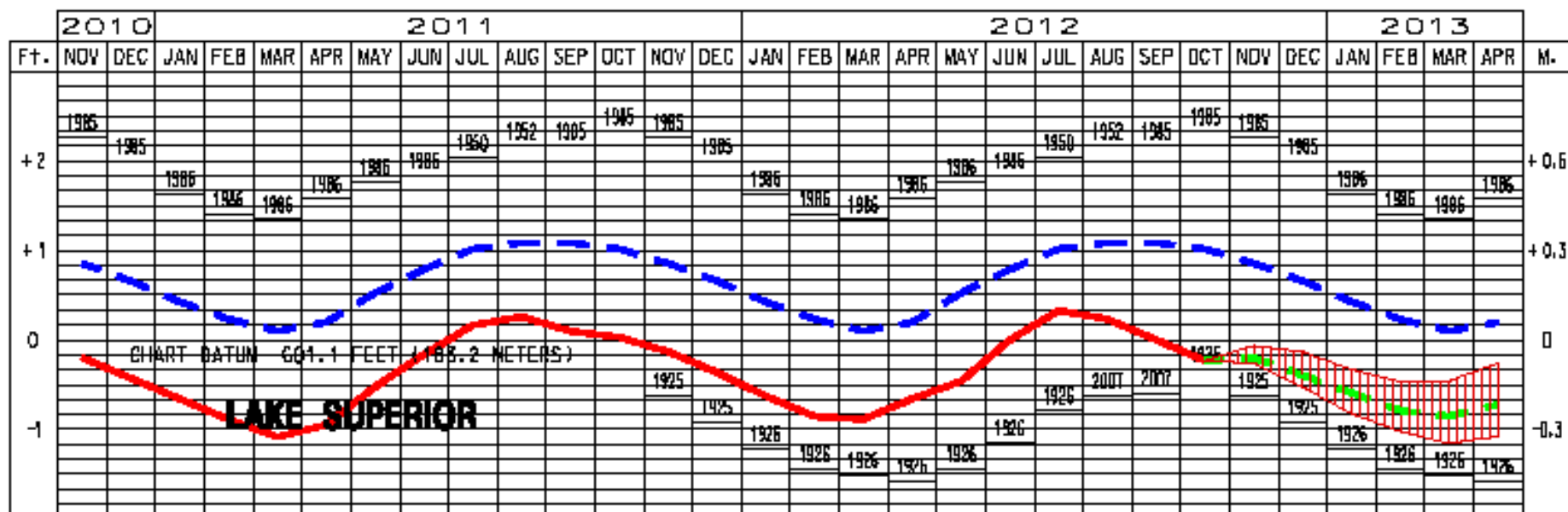
**LIVE**

8:35 APT

**MARKETS**  
**WU-NOW**

▶	INDUSTRIALS	GENERAL ELECTRIC (GE)	21.14 ▼ 0.07	DOW	▼ 22.55
0.08	UNITED THERAPEUTICS (UTHR)	107.51	51.03	S&P	▲ 0.21
FOX BUSINESS	OPEC: US OIL PRODUCTION TO GROW 490,000 B/D IN 2013			NAS	▲ 8.01

## LAKE SUPERIOR WATER LEVELS - NOVEMBER 2012



### LEGEND LINE LEVELS

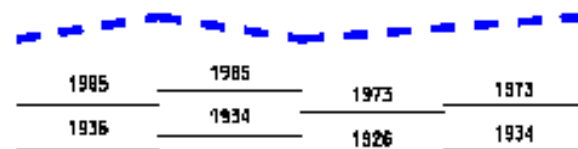
RECORDED

PROJECTED

AVERAGE -

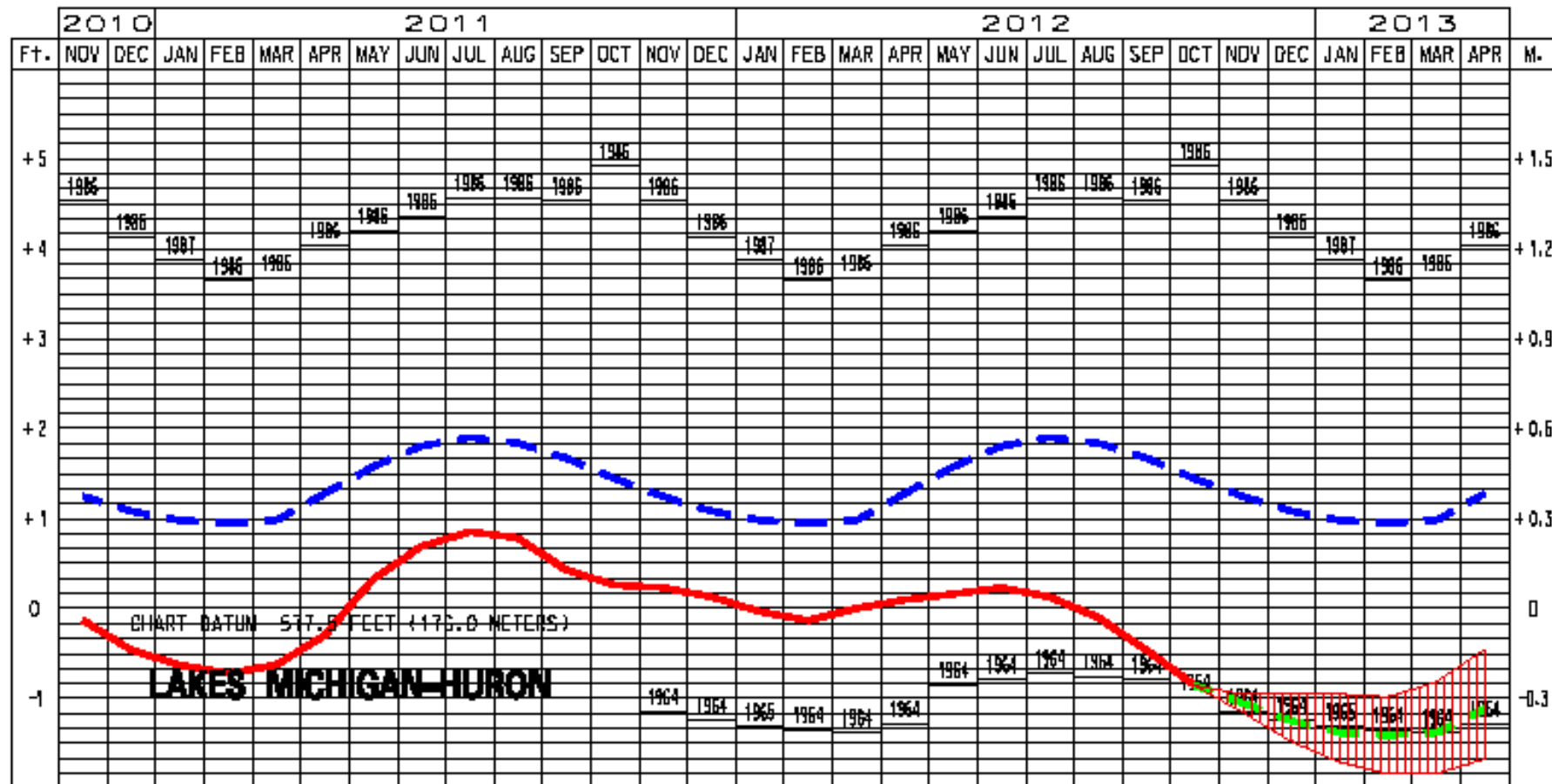
MAXIMUM -

MINIMUM -



1985 Average, Maximum and Minimum for period 1918-2011

# LAKES MICHIGAN-HURON WATER LEVELS - NOVEMBER 2012



## LEGEND

LINE LEVEL

RECORDED

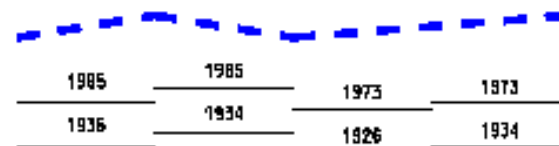
PROJECTED



AVERAGE =

MINIMUM =

MAXIMUM =



1918-2011 Average, Maximum and Minimum for period 1918-2011

# Feb 1, 2013 Lake Levels

	Superior	Mich-Huron	St. Clair	Erie
LTA – Feb 13	-11	-29	-11	-6
Max – Feb 13	-26	-61	-51	-37
Max Year	1986	1986	1986	1987
Low – 13	+9 1926	-1 1964	+24 1926	+26 1936
Change Mar 13	-2	-1	+2	+1

# Potential Causes of Lower Levels

- Precipitation
- Ice Cover – Evaporation
- Glacial rebound
- Conveyance?

# Potential Responses

- Compensating Works
  - Soo, Niagara Falls
  - New Construction?
    - St. Clair River?
- Dredging

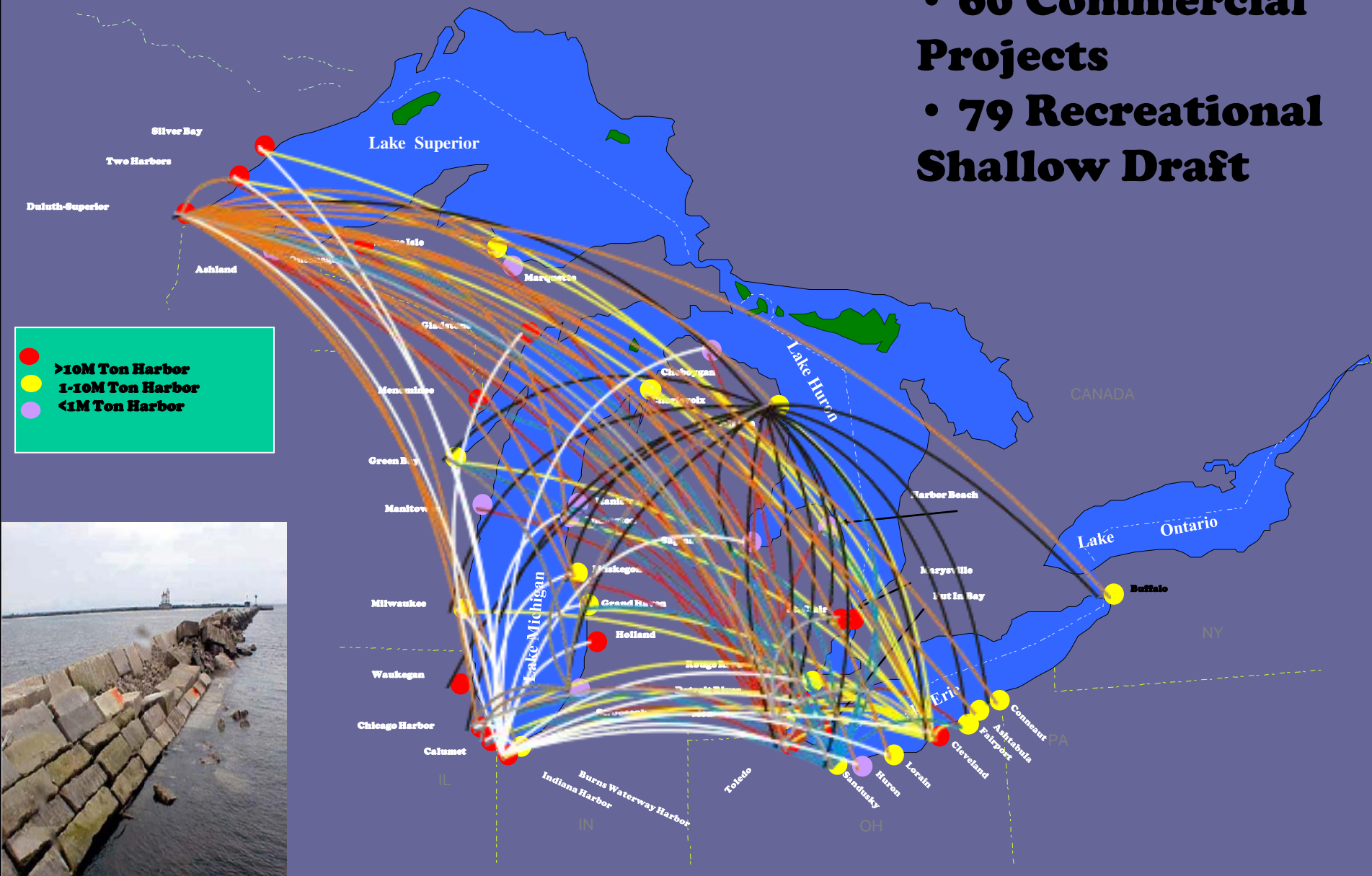
# **Great Lakes Economy**

- **50% of U.S. Steelmaking Capacity**
- **70% of U.S. Auto Manufacturing**
- **55% of All Manufacturing**
- **Great Lakes Shipping is Integral to the U.S. and Canadian Economies. It Creates**
  - 227,000 Jobs**
  - \$ 33.5 Billion in business revenue**
  - \$14.1 Billion in annual personal income**
  - \$6.4 Billion in local purchases**
  - \$4.6 Billion in tax revenue**
  - \$3.6 Billion in Transportation Rate Savings**



# Great Lakes Navigation System

- 60 Commercial Projects
- 79 Recreational Shallow Draft

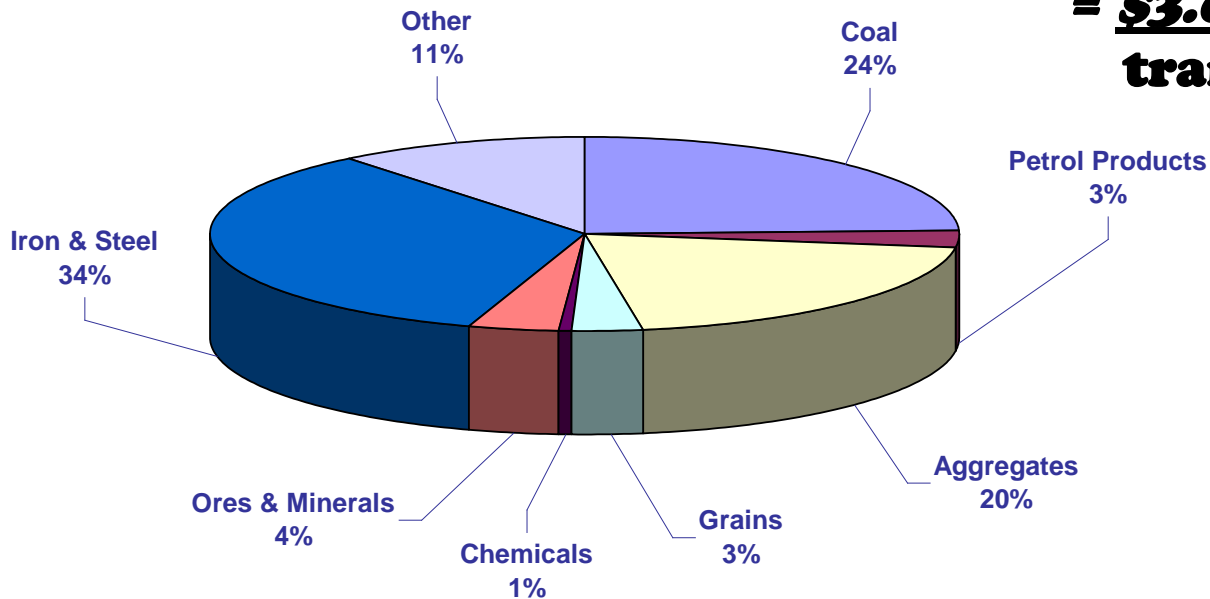


# Great Lakes Navigation

## A Great Investment

**\$90 Mil for O&M  
(\$40Mil dredging)**

**= \$3.6+ Bil in lower  
transport costs**



# Every Inch Counts!

**When inadequate dredging forces the 56 lakers enrolled in LCA to reduce draft by 1 inch, the fleet forfeits more than **8,000 tons of cargo** each trip.**

## **8,000 Tons is Enough...**







**Iron ore** to produce the steel to build **6,000 cars** (10 days of work for a major auto plant)

**Coal** to provide **3 hours of electricity** for Greater Detroit

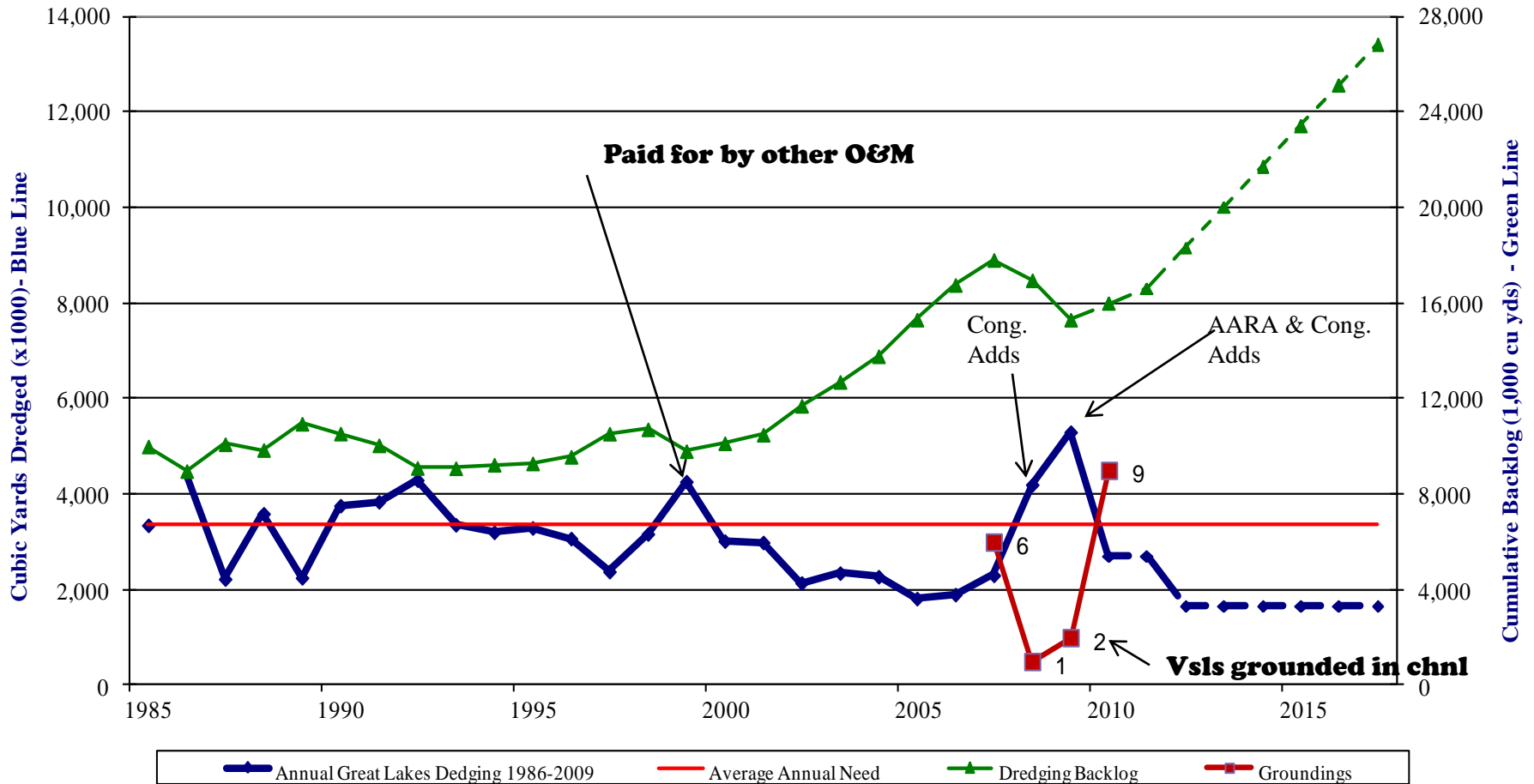
**Limestone** to build **24 homes.**

# Impact of Dredging Crisis on Per-Trip Carrying Capacity

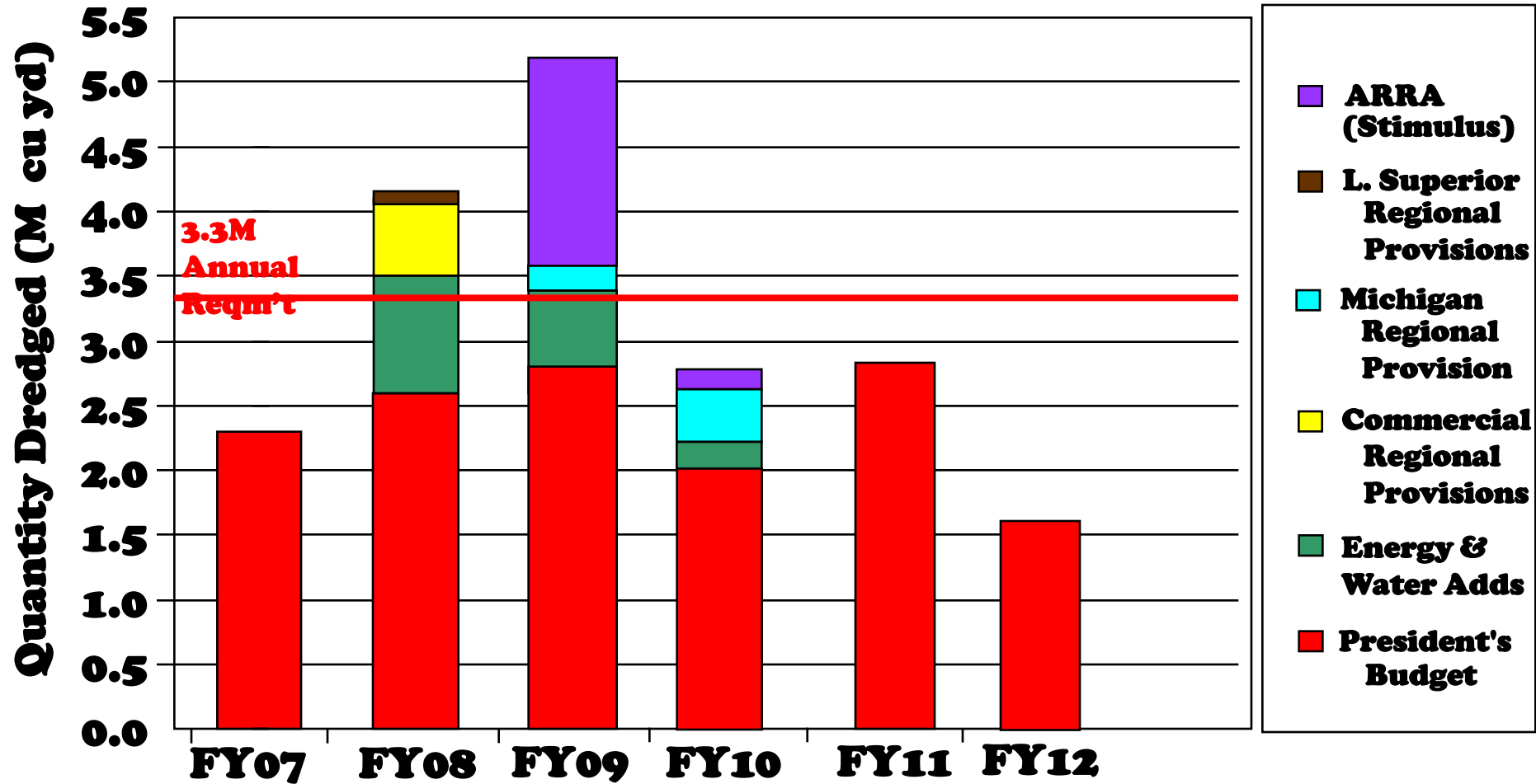
## Major Great Lakes Vessel Classes

Major Great Lakes Vessel Classes	Vessel Length (feet)	Per-Trip Carrying Capacity (net tons)	Capacity Per Foot Of Draft (net tons)
	1,000	69,664	3,204
	806	34,720	1,752
	767	28,336	1,524
	730	27,558	1,380
	635	22,064	1,284
	501	13,776	852

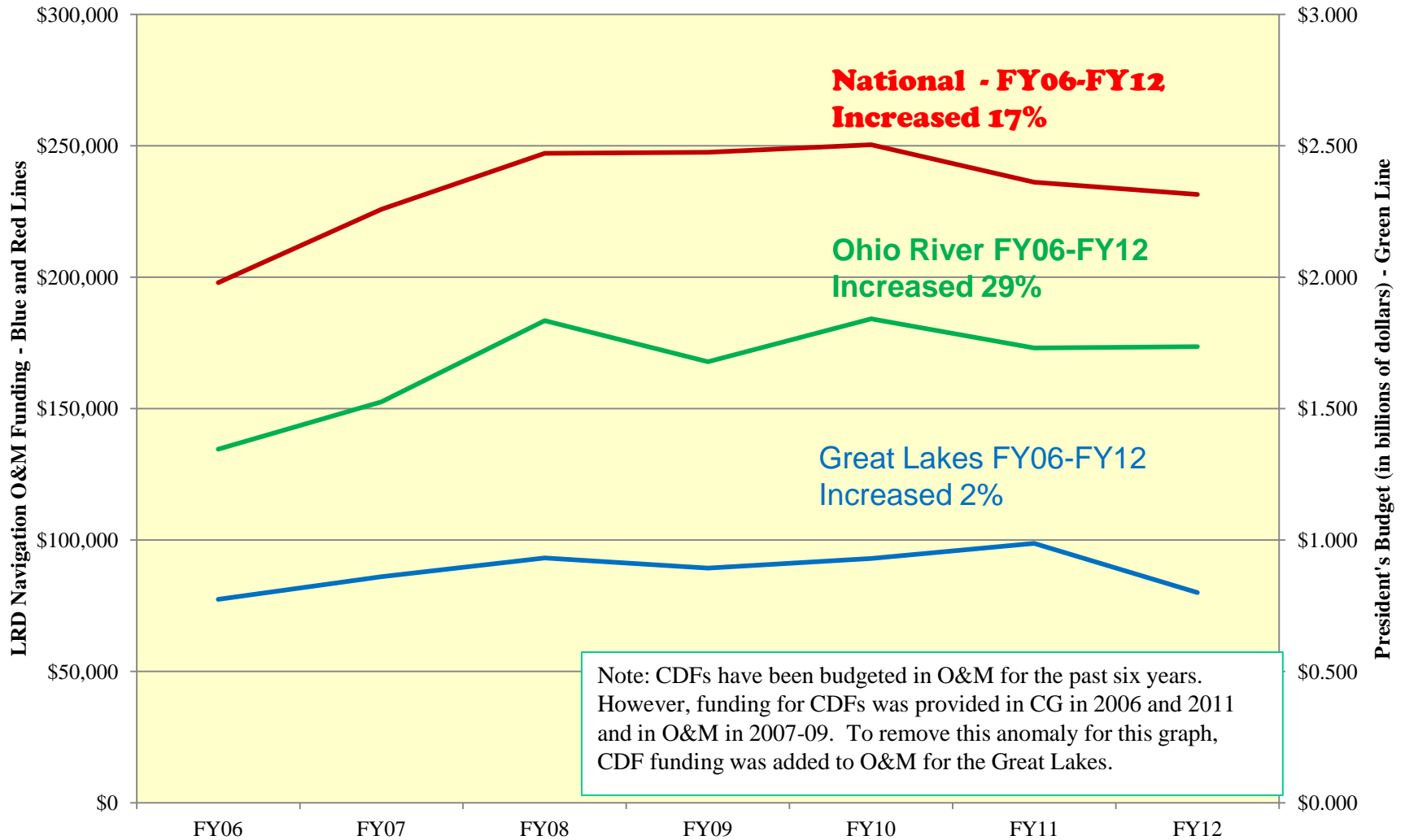
# Great Lakes Backlog Growth Under Constrained Dredging Funding 2012-2017



# Dredging Funding Trends 2007 - 2012



# LRD Navigation O&M Funding and President's Budget 2006-2012

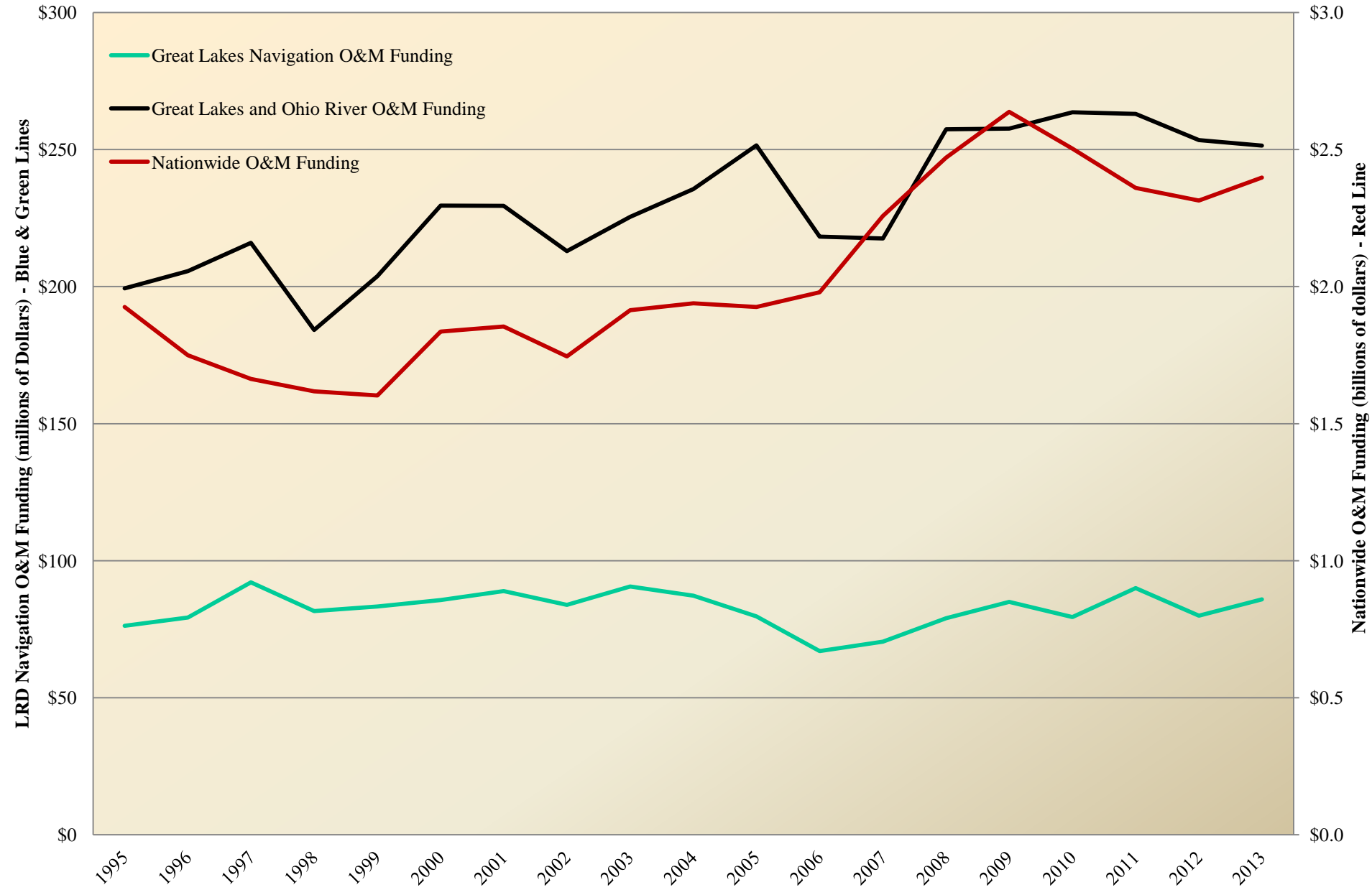


— Great Lakes O&M NAV Funding (in millions)

— Ohio River & Tributaries O&M NAV Funding (in millions)

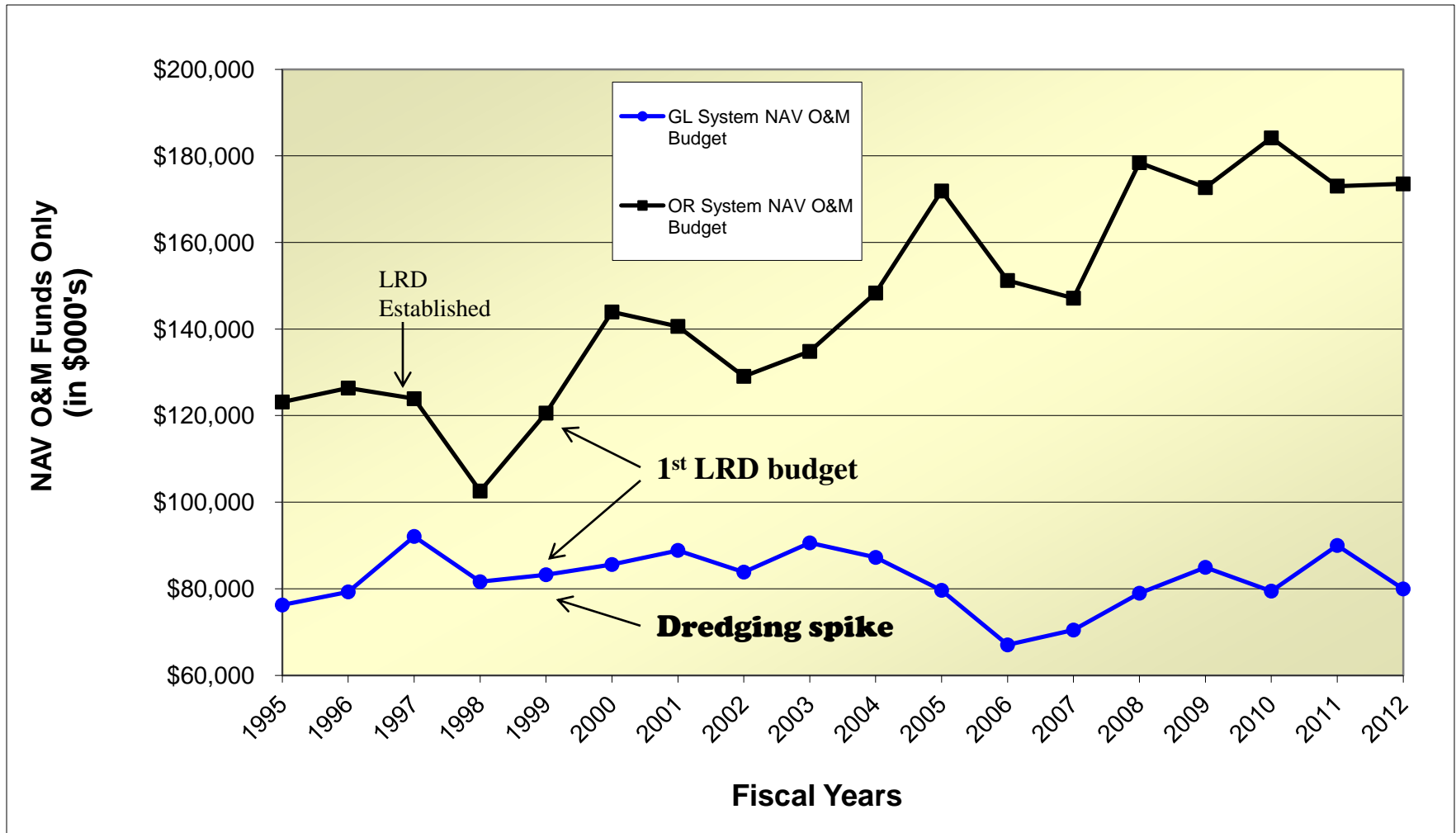
— Corps O&M President's Budget (in billions)

# O&M Funding in the President's Budget 1995 - 2013





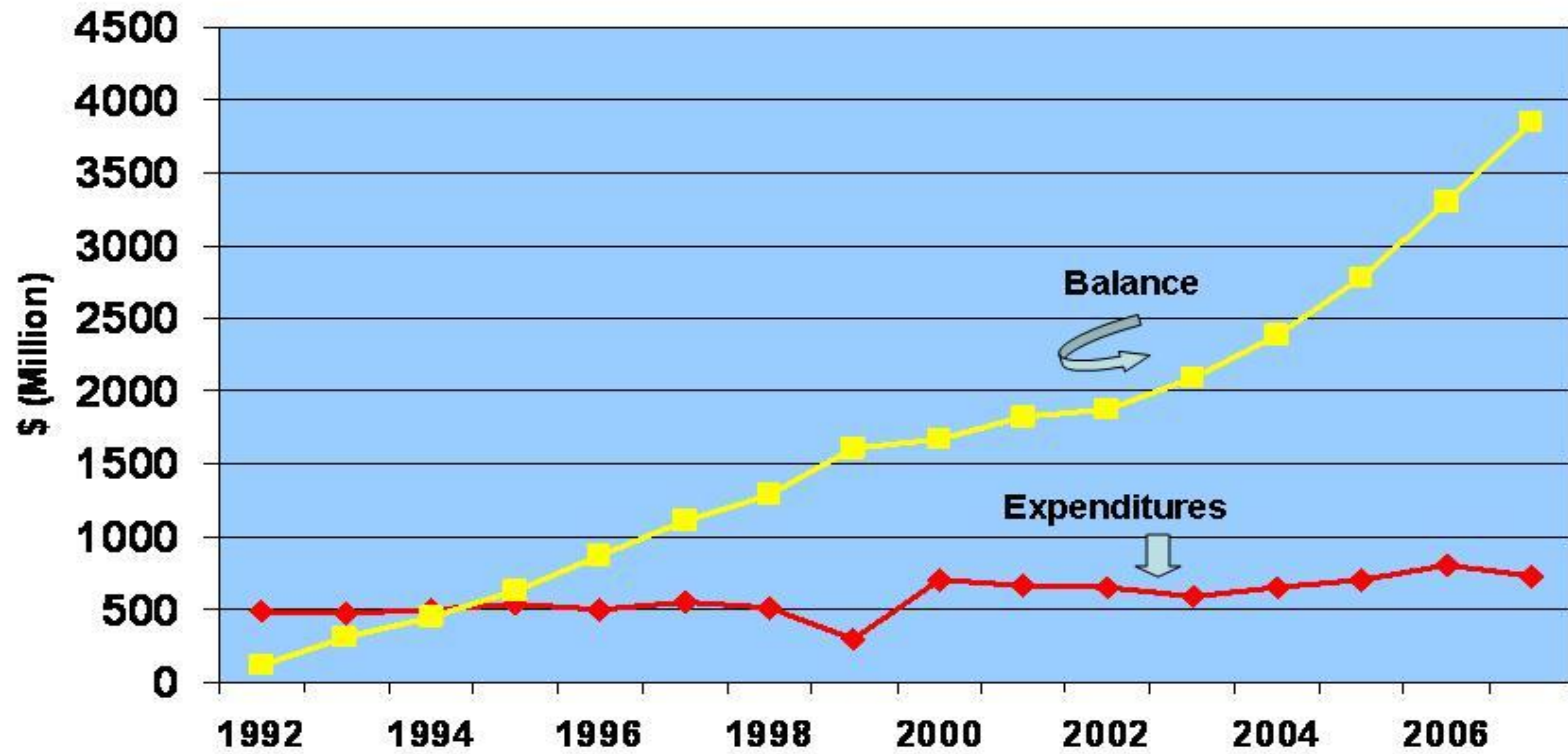
# GL & Ohio River O&M PB Nav Funding



# TRUST GAP



## Harbor Maintenance Trust Fund Expenditures and Balance, 1992-2007

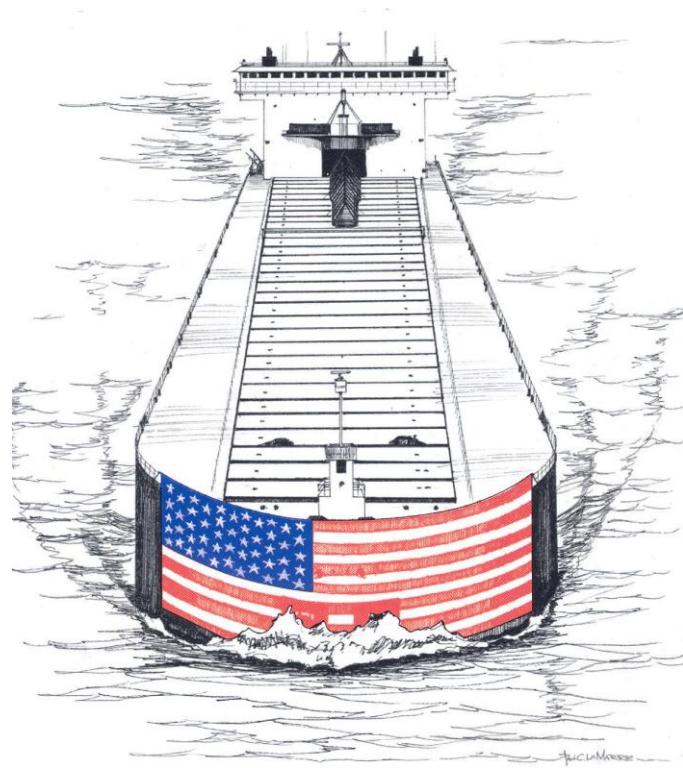


*Projected for 2007 Based on Conf Rpt.*

# **Navigation Structures**

**Most navigation structures are over  
70 years old and in need of repair  
and rehabilitation**

**400 year recapitalization rate**



# QUESTIONS

